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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/680,017	10/05/2000	Vipul Bansal	JP920000236US1	8559

7590 09/29/2003

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EXAMINER
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REAGAN, JAMES A

ART UNIT	PAPER NUMBER
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3621

DATE MAILED: 09/29/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/680,017

Applicant(s)

BANSAL ET AL.

Examiner

James A. Reagan

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 05 October 2000.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### **Status of Claims**

1. This action is in response to the application filed on 05 October 2000.
2. Claims 1-24 have been examined.

### **Information Disclosure Statement**

3. The Information Disclosure Statement filed on 29 May 2001 (paper no. 4) has been considered. An initialed copy of the Form 1449 is enclosed herewith.

### **Specification**

4. The disclosure is objected to because it contains an embedded hyperlink and/or other form of browser-executable code on page 1, line 25. Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. See MPEP § 608.01.

### **Claim Rejections - 35 USC § 103**

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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6. Claims 1-3, 6-11, 15-19, and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miller et al. (US 5,640,569 A) in view of Krishnaswamy et al. (US 5,867,494 A).

**Examiner's note:** Examiner has pointed out particular references contained in the prior art of record in the body of this action for the convenience of the Applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply. Applicant, in preparing the response, should consider fully the *entire* reference as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

**Claims 1-3, 8-11, 16-19, and 24:**

With regard to the limitations of:

- *providing different levels of service by dynamically allocating and pricing said resources based on customers' changing needs, and their willingness to pay,*
- *said means for dynamically allocating and pricing resources is through mutual negotiations between said customers and said resource center either through electronic communication means or otherwise,*
- *mechanism for conducting an online auction of said resources by the resource center in case of non-availability of adequate idle resources to meet a customer request followed by re-allocation of said resources to said customers, updating of billing information and pricing based on the results of the auction of resources,*

- *mechanism for conducting an online auction of resources at pre-specified intervals of time followed by re-allocation of said resources to said customers, updating of billing information and pricing based on results of the auction of resources,*
- *mechanism for publishing the current prices for each class of resources at any point of time and means for updating the current prices dynamically based on requests for release or acquisition of resources by customers, followed by updating of billing information,*
- *the arrangement being such that said mechanisms operate either individually or together in any combination of at least two mechanisms depending upon the requirement.*
- *said resources in a resource center includes servers, storage media, software applications and bandwidth of communication link connecting said servers center to a network.*

Miller, in at least the abstract and column 2, line 58 to column 3, line 30, discloses allocation of computer resources based on a bidding auction system. Miller does not specifically disclose dynamic allocation of resources, but Krishnaswamy, in column 31, lines 48-51 does. Krishnaswamy also discloses specialized billing methods (see at least column 20, lines 35-39) and service level agreements (column 30, lines 8-13). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Miler's online auctioning system for allocating resources with Krishnaswamy's dynamic

allocations of resources and associated billing practices because "The cheaper a resource becomes, the more important it becomes to have automatic management of that resource in a principled fashion. This is because the increased capacity makes it possible to apply that resource to lower-value uses. When a resource is expensive, all uses, in order to be worth the amount they consume, must exceed some minimum value to their users, so all uses of an expensive resource have high and comparable values" (Miller, column 1, lines 14-22).

**Claims 6, 14, and 22:**

With regard to the limitations of *said current prices comprise the current price at which resources are allocated to customers, the new price that would prevail if specified units of resources are released by customers and the new price that would prevail if specified units of resources are acquired by the customers*, Miller, in column 2, lines 12-25, discloses various pricing/bidding schemes and auction formats.

**Claims 7, 15, and 23:**

With regard to the limitation of *each class of resources has some units dedicated to specific customers and the remaining units can be dynamically allocated to customers by the resource center*, the combination of Miller/Krishnaswamy, as shown above, discloses various auction techniques. Miller/Krishnaswamy do not specifically state that certain resources are set-aside for certain customers. However, Examiner takes **Official Notice** that it is old and

well known in the goods and services supply arts to maintain regular and repeat customers that routinely request and expect a standard amount of product to be supplied to them on a habitual basis. Dedicating a specific or minimum amount of the supply to specific recurring clients provides consistent throughput and profit.

7. Claims 4, 5, 12, 13, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miller/Krishnaswamy et al. (US 5,867,494 A) and further in view of Ferstenberg et al. (US 5,873,071 A).

**Claims 4, 5, 12, 13, 20 and 21:**

The combination of Miller/Krishnaswamy discloses the online allocation auction and billing above. Miller/Krishnaswamy do not specifically disclose:

- mutual online negotiations can take place between software-based agents representing said customers and said resource center,
- means enabling the customers to provide price and service level related inputs to their respective software-based agents,
- means for said software-based agents representing customers to monitor the usage of resources allocated to them and the levels of service being obtained, and
- means for said software-based agents representing customers to use,
- said inputs from said customers and said usage and/or said levels of service being obtained to dynamically determine when to request the

software agent representing the resource center for acquiring or releasing resources at various prices.

Ferstenberg, however, in column 3, lines 22-41, discloses e-agents that conduct electronic negotiations according to rules established by a participant. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Miller/Krishnaswamy dynamic allocations of resources and associated billing practices with Ferstenberg's electronic negotiating agents because "...it permits the participant the flexibility to dynamically adapt to market conditions that affect the price and availability of individual commodities" (Ferstenberg column 2, lines 39-43).



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Any inquiry concerning this communication or earlier communications from the examiner should be directed to **James A. Reagan** whose telephone number is **(703) 306-9131**. The examiner can normally be reached on Monday-Friday, 9:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **James Trammell** can be reached at (703) 305-9768.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Receptionist** whose telephone number is **(703) 305-3900**.

Any response to this action should be mailed to:

***Commissioner of Patents and Trademarks***

**Washington, D.C. 20231**

or faxed to:

**(703) 305-7687** [Official communications; including After Final communications labeled "Box AF"]

**(703) 308-1396** [Informal/Draft communications, labeled PROPOSED or "DRAFT"]

Hand delivered responses should be brought to Crystal Park 5, 2451 Crystal Drive, Arlington, VA, 7<sup>th</sup> floor receptionist.

JAR  
17 September 2003



**JAMES P. TRAMMELL**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 3600**